			<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY:	
					OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588	
1. INSTRUMENT TYPE: Grant			3b. CFDA: 12.300		3c. DUNS NUMBER:	
2. AUTHORITY: 10 USC 2358, 31 USC 6304			6. MODIFICATION TYPE: Administrative		7. PR NO.: 02PR07507-00	
4. AWARD NO.: N00014-95-1-1302			5. MODIFICATION NO.: A00004		PAGE 1 of 5	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A			9. RECIPIENT PROPOSAL NO.: N/A		10. PROPOSAL DATE: N/A	
11. ACTIVITY TYPE: Research			12. PROGRAM TYPE: N/A			
13. ISSUED TO 13a. ADDRESS:			13b. CAGE: 4B877		13c. EDI/EFT NUMBER: 4301AO	
PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907			14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13):  Same as block #13			
13d. BUSINESS OFFICE CONTACT:						
13e. TELEPHONE NUMBER:			13f. EMAIL ADDRESS:			
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Manufacturable Power Switching Devices						
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE		TOTAL
PREVIOUSLY OBLIGATED:		(b) (4)		\$ .00		(b) (4)
OBLIGATED BY THIS ACTION:		(b) (4)		\$ .00		(b) (4)
TOTAL OBLIGATED ON AWARD:		(b) (4)		\$ .00		(b) (4)
FUTURE FUNDING:		(b) (4)		\$ .00		(b) (4)
GRANT TOTAL:		(b) (4)		\$ .00		(b) (4)
17. CURRENT FUNDING PERIOD N/A THROUGH N/A						
18. PERIOD OF PERFORMANCE 29-SEP-1995 THROUGH 31-DEC-2000						
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet(s)						
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE:  (PI) James A. Cooper			21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper		21b. CODE: ONR 312	
			21c. ADDRESS:  OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660			
20b. TELEPHONE NUMBER: (765) 4943514		20c. EMAIL ADDRESS: cooperj@ecn.purdue.edu		21d. TELEPHONE NUMBER: (703) 6961437		21e. EMAIL ADDRESS: zolperj@onr.navy.mil
22. AWARDOFFICE CONTACT 22a. NAME: Yolanda Williams			22b. CODE: ONR 245		23a. ADMINISTRATIVE OFFICE:	
22c. ADDRESS:  OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588					23b. CODE: N62880	
22d. TELEPHONE NUMBER: (312) 8865423			22e. EMAIL ADDRESS: williay@onr.navy.mil		OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 Fax: (312) 3532094	
24. SUBMIT PAYMENT REQUEST TO:  Same as block #23a			25a. PAYING OFFICE:  DFAS CHARLESTON, SC		25b. CODE: N68892	
					26a. PATENT OFFICE:  OFFICE OF NAVAL RESEARCH ATTN: ONR 00CC BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
					26b. CODE: N00014	

AWARD NO. N00014-95-1-1302		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. A00004		PAGE 2 of 5	
27. SPECIAL INSTRUCTIONS:  See "Special Requirements" Attachment							
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/02/024/offices.htm">http://www.onr.navy.mil/02/024/offices.htm</a>							
Full Delegation							
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.							
DOCUMENT		URL				CLAUSES	
30. OPTIONS		OPTION NO.		AMOUNT		PERIOD	
(1)							
(2)							
(3)							
(4)							
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".							
ADDRESSEE				REPORT TYPE		COPIES	
See block #21 (Frequency)				Final Technical Report w/ SF298 Performance/Technical Report (As Required) w/ SF298		1 1	
See block #23a				Report of Inventions and Subcontracts - DD 882 Final Technical Report - Transmittal letter only Performance/Technical Report (As Required) Final Financial Status Report - SF269A - If advances used		1 1 1 1	
See block #26a				Report of Inventions and Subcontracts - DD 882		1	
DEFENSE TECHNICAL INFORMATION CENTER 8725 JOHN J KINGMAN ROAD STE 0944 FORT BELVOIR VA 22060-6218				Final Technical Report w/ SF298 Performance/Technical Report (As Required) w/ SF298		1 1	
NAVAL RESEARCH LABORATORY ATTN: CODE 5227 4555 OVERLOOK AVENUE SW WASHINGTON DC 20375-5320				Final Technical Report w/ SF298 Performance/Technical Report (As Required) w/ SF298		1 1	
32. FOR THE RECIPIENT				33. FOR THE UNITED STATES OF AMERICA			
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD				33a. SIGNATURE OF AWARDOFFICER  (b) (6)			
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARDOFFICER John Chiappe		33c. DATE SIGNED 29-JAN-2002	

# FINANCIAL ACCOUNTING DATA SHEET - NAVY


1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302			2. SPIIN (CRITICAL)			3. MOD (CRITICAL) A00004			4. PR NUMBER 02PR07507-00				PAGE 3 OF 5				
CLIN/SLIN	6. LINE OF ACCOUNTING												7.  AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN		
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE						
											PROJ UNIT	MCC				PDLI & SUF	
	AF	9700400	WBBB	255	RA	369	0	068342	2D	000000	R1103	000	URIJ	-\$411.19		PR#02PR07507-00 FRC:URIJ	
PAGE TOTAL														-\$411.19			
GRAND TOTAL														-\$411.19			
PREPARED/AUTHORIZED BY:						COMPTROLLER APPROVAL:											
DATE:						FOR FISCAL DATA AND SIGNATURE											
						BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED											

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302		2. SPIIN (CRITICAL)		3. MOD (CRITICAL) A00004		4. PR NUMBER 02PR07507-00		PAGE 4 OF 5	
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION				8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
		<p style="font-size: 24px; margin: 0;">This page is intentionally blank</p>							
PAGE TOTAL						\$ . 0			
GRAND TOTAL						\$ . 0			
PREPARED/AUTHORIZED BY:  DATE:					COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REV EWED DATE:				



The purpose of this modification is to deobligate \$411.19. No further funding will be provided under this award.

		AWARD/ MODIFICATION		3a. ISSUED BY: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300	
4. AWARD NO.: N00014-95-1-1302		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER: 008963233	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		5. MODIFICATION NO.: P00006		6. MODIFICATION TYPE: Increment	
13. ISSUED TO 13a. ADDRESS: PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 00PR03080-00	
13b. CAGE: 4B877		13c. EDI/EFT NUMBER: 4301AO		10. PROPOSAL DATE: Undated	
13d. BUSINESS OFFICE CONTACT:		13e. TELEPHONE NUMBER:		13f. EMAIL ADDRESS:	
14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13					
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Manufacturable Power Switching Devices					
16. FUNDING PREVIOUSLY OBLIGATED: OBLIGATED BY THIS ACTION: TOTAL OBLIGATED ON AWARD: FUTURE FUNDING: GRANT TOTAL:		ACTIVITY/AGENCY SHARE (b) (4) (b) (4) (b) (4) (b) (4) (b) (4)		RECIPIENT SHARE \$ .00 \$ .00 \$ .00 \$ .00 \$ .00	
				TOTAL (b) (4) (b) (4) (b) (4) (b) (4) \$10,450,000.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 29-SEP-1995 THROUGH 28-SEP-2000					
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: (PI) James A. Cooper		21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper		21b. CODE: ONR 312	
20b. TELEPHONE NUMBER: (765) 4943514		20c. EMAIL ADDRESS: cooperj@ecn.purdue.edu		21c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
22. AWARDING OFFICE CONTACT 22a. NAME: Carol A. Porter		22b. CODE: ONR 251		21d. TELEPHONE NUMBER: (703) 6961437	
22c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660		22d. TELEPHONE NUMBER: (703) 6962587		21e. EMAIL ADDRESS: zolperj@onr.navy.mil	
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS CHARLESTON, SC		23a. ADMINISTRATIVE OFFICE: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 Fax: (312) 3532094, Email: fryet@onr.navy.mil	
				23b. CODE: N62880	
				25b. CODE: N68892	
				26a. PATENT OFFICE:	
				26b. CODE:	



# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302			2. SPIIN (CRITICAL)			3. MOD (CRITICAL) P00006			4. PR NUMBER 00PR03080-00				PAGE 3 OF 5		
CLIN/SLIN	6. LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE				
											PROJ UNIT	MCC	POLI & SUF		
	AF	9700400	WBBB	255	RA	369	0	068342	2D	000000	R1103	000	URIJ	\$1,753,000.00	PR#00PR03080-00 FRC:URIJ
PAGE TOTAL														\$1,753,000.00	
GRAND TOTAL														\$1,753,000.00	
PREPARED/AUTHORIZED BY:						COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE									
DATE:						BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED									
DATE:						DATE:									

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302		2. SPIIN (CRITICAL)	3. MOD (CRITICAL) P00006	4. PR NUMBER 00PR03080-00	PAGE 4 OF 5	
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION			8. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN
			This page is intentionally blank			
			PAGE TOTAL		\$ .00	
			GRAND TOTAL		\$ .00	
PREPARED/AUTHORIZED BY:  DATE:				COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:		

AWARD NO.  
N00014-95-1-1302

## SPECIAL REQUIREMENTS

MODIFICATION NO.  
P00006

PAGE  
5 of 5

This modification is to provide final increment of funds.



## Grant Distribution

PR Number: 00PR03080-00  
Grant Number: N00014-95-1-1302/P00006  
Specialist: CAP ONR: 251

Distribution Date:

11-18-89

Distributed By:

(b) (6)


— PCO, ONR Arlington (Original)

— Grantee (Duplicate Original)  
Short Contractor Code and Address:  
PURD  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

— ACO  
ACO MILSCAP Code and Address  
N62880:  
OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO  
FAX 312 353 2094  
536 S CLARK STREET ROOM 208  
CHICAGO, IL 60605-1588

— Payment Office  
DODAAD Code and Address  
N68892:  
DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER  
CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP  
PO BOX 118054  
CHARLESTON, SC 29423-8054

— ONR:  
00CC  
Program Officer: John C. Zolper, ONR 312

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
				3b. CFDA: 12.300	
4. AWARD NO.: N00014-95-1-1302		5. MODIFICATION NO.: P00007		6. MODIFICATION TYPE: Administrative	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		10. PROPOSAL DATE: N/A	
13. ISSUED TO: 13a. ADDRESS:  PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907		13b. CAGE: 4B877		13c. EDI/EFT NUMBER: 4301AO	
13d. BUSINESS OFFICE CONTACT:		13e. TELEPHONE NUMBER:		13f. EMAIL ADDRESS:	
14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13					
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Manufacturable Power Switching Devices					
16. FUNDING PREVIOUSLY OBLIGATED: OBLIGATED BY THIS ACTION: TOTAL OBLIGATED ON AWARD: FUTURE FUNDING: GRANT TOTAL:		ACTIVITY/AGENCY SHARE <b>(b) (4)</b> <b>(b) (4)</b> <b>(b) (4)</b> <b>(b) (4)</b> <b>(b) (4)</b>		RECIPIENT SHARE \$ .00 \$ .00 \$ .00 \$ .00 \$ .00	
				TOTAL <b>(b) (4)</b> <b>(b) (4)</b> <b>(b) (4)</b> <b>(b) (4)</b> \$10,450,000.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 29-SEP-1995 THROUGH 31-DEC-2000					
19. ACCOUNTING AND APPROPRIATION DATA:					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: (PI) James A. Cooper		21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper		21b. CODE: ONR 312	
20b. TELEPHONE NUMBER: (765) 4943514		20c. EMAIL ADDRESS: cooperj@ecn.purdue.edu		21c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
22. AWARDING OFFICE CONTACT 22a. NAME: Carol A. Porter		22b. CODE: ONR 251		23a. ADMINISTRATIVE OFFICE: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 Fax: (312) 3532094	
22c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660		22d. TELEPHONE NUMBER: (703) 6962587		22e. EMAIL ADDRESS: porterca@onr.navy.mil	
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS CHARLESTON, SC		25b. CODE: N68892	
				26a. PATENT OFFICE: 	
				26b. CODE: 	



AWARD NO. N00014-95-1-1302		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00007	PAGE 2 of 5
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @ <a href="http://www.onr.navy.mil/02/024/offices.htm">http://www.onr.navy.mil/02/024/offices.htm</a>					
Full Delegation					
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.					
DOCUMENT		URL		CLAUSES	
30. OPTIONS	OPTION NO.	AMOUNT	PERIOD		
(1)					
(2)					
(3)					
(4)					
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".					
ADDRESSEE		REPORT TYPE	COPIES		
32. FOR THE RECIPIENT		33. FOR THE UNITED STATES OF AMERICA			
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN		33a. SIGNATURE OF AWARDING OFFICER			
N/A - SIGNATURE NOT REQUIRED ON THIS AWARD		(b) (6)			
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARD OFFICER	
				Lambert C. McCullough	
				33c. DATE SIGNED	
				27-JUL-2000	

# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302			2. SPIIN (CRITICAL)		3. MOD (CRITICAL) P00007			4. PR NUMBER 00PR03080-01					PAGE 3 OF 5		
CLIN/SLIN	6. LINE OF ACCOUNTING												7.  AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE				
											PROJ UNIT	MCC			PDLI & SUF
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												PAGE TOTAL	\$ .00		
												GRAND TOTAL	\$ .00		
PREPARED/AUTHORIZED BY:						COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE									
DATE:						BY _____						for COMPTROLLER, ONR CONTRACT REVIEWED			
DATE:						DATE:									

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302		2. SPIIN (CRITICAL)	3. MOD (CRITICAL) P00007	4. PR NUMBER 00PR03080-01		PAGE 4 OF 5	
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION			8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN
		<p style="font-size: 24px; margin: 0;">This page is intentionally blank</p>					
PAGE TOTAL					\$ . 00		
GRAND TOTAL					\$ . 00		
PREPARED/AUTHORIZED BY:  DATE:				COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:			

AWARD NO. N00014-95-1-1302	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00007	PAGE 5 of 5
<p>The purpose of this PR is to provide a no cost extension for grant N000149511302 through 31 Dec 2000.</p>			

# Award Completion Statement

<b>1. FROM: (Award Administration Office)</b> Office of Naval Research, Chicago Regional Office 536 South Clark Street Room 208 Chicago, IL 60605-1509 Main Office Phone: (312) 886-5423      FAX: (312) 353-2094		<b>2a. AWARD NUMBER</b> N00014-95-1-1302 <b>2b. LAST ADMINISTRATION MODIFICATION NUMBER</b> A00004 <b>2c. LAST AWARDING AGENCY MODIFICATION NUMBER</b> P00007													
<b>3. TO: (Name and Address of Awarding Agency or Payment office, as applicable)</b>  OFFICE OF NAVAL RESEARCH ATTN: ONR CODE 251, Elizabeth Ford 800 NORTH QUINCY STREET ARLINGTON, VA 22217-5660		<b>4. NAME OF Awardee</b> Purdue Research Foundation WEST LAFAYETTE, IN <b>5. EXCESS FUNDS (ULO)</b>  \$0.00													
<b>6a. IF FINAL PAYMENT HAS BEEN MADE, COMPLETE ITEMS 6b., AND 6c.</b>		<b>6b. VOUCHER NUMBER</b>													
<b>7a. IF FINAL APPROVED INVOICE FORWARDED TO D.O. OF ANOTHER ACTIVITY AND STATUS OF PAYMENT IS UNKNOWN, COMPLETE ITEMS 7b, AND 7c.</b>		<b>7b. INVOICE NUMBER</b>													
<b>8. REMARKS</b>  <table style="width: 100%; border: none;"> <thead> <tr> <th></th> <th style="text-align: center;">CAMIS</th> <th style="text-align: center;">STARS</th> </tr> </thead> <tbody> <tr> <td>Total amount obligated:</td> <td style="text-align: right;">\$10,449,588.81</td> <td style="text-align: right;">\$10,449,588.81</td> </tr> <tr> <td>Total amount approved / disbursed:</td> <td style="text-align: right;">\$10,449,588.81</td> <td style="text-align: right;">\$10,449,588.81</td> </tr> <tr> <td>Excess funds to deobligate (ULO):</td> <td style="text-align: right;">\$0.00</td> <td style="text-align: right;">\$0.00</td> </tr> </tbody> </table>			CAMIS	STARS	Total amount obligated:	\$10,449,588.81	\$10,449,588.81	Total amount approved / disbursed:	\$10,449,588.81	\$10,449,588.81	Excess funds to deobligate (ULO):	\$0.00	\$0.00	<b>6c. DATE</b>  <b>7c. DATE FORWARDED</b>	
	CAMIS	STARS													
Total amount obligated:	\$10,449,588.81	\$10,449,588.81													
Total amount approved / disbursed:	\$10,449,588.81	\$10,449,588.81													
Excess funds to deobligate (ULO):	\$0.00	\$0.00													
<b>9a. ALL ADMINISTRATION OFFICE ACTIONS REQUIRED HAVE BEEN SATISFACTORILY COMPLETED. THIS INCLUDES FINAL SETTLEMENT IN THE CASE OF A PRICE REVISION CONTRACT</b>															
<b>9b. TYPED NAME OF RESPONSIBLE OFFICIAL</b> JOHN CHIAPPE Administrative Grant Officer		<b>9c. SIGNATURE</b> <div style="background-color: black; color: red; font-size: 2em; text-align: center; padding: 10px;">(b) (6)</div>													
<b>9d. DATE</b> 10-Apr-2002															
FOR PURCHASING OFFICE USE ONLY															
<b>10a. ALL PURCHASING OFFICE ACTIONS REQUIRED HAVE BEEN FULLY AND SATISFACTORILY ACCOMPLISHED. AWARD FILE OF THIS OFFICE IS HEREBY CLOSED AS OF:</b>  <input type="checkbox"/> DATE SHOWN IN ITEM 9d ABOVE <input type="checkbox"/> DATE SHOWN IN ITEM 10e BELOW. <small>(Check this box only if final completion of any significant purchasing office action extends more than three months beyond close-out date shown in item 9d. above. In such cases, submit a copy of the completed form upon final accomplishment of all purchasing office actions to the award administration office (Upon receipt, the award administration office shall extend its contract file close-out date accordingly.))</small>															
<b>10b. REMARKS</b>															
<b>10c. TYPED NAME OF RESPONSIBLE OFFICIAL</b>		<b>10d. SIGNATURE</b>													
<b>10e. DATE</b>															

# TABLE OF CONTENTS

## Master Grant File

**Page 1 Grant and amendments**


**Page 2 Correspondence (chronologically filed with oldest on bottom)**

**Page 3 Grant Distribution Document  
Route Sheet with legal comment attached  
DD 2566**

**Page 4 (listed from bottom up)  
One signed copy of proposal  
Copy of BAA that appeared in CBD  
Grantees' certification  
Clearance and budgets  
One copy of PR**

**NOTE: PLEASE KEEP THIS ON TOP OF PAGE 1 OF GRANT FOLDER**



		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588	
				3b. CFDA: 12.300	
4. AWARD NO.: N00014-95-1-1302		1. INSTRUMENT TYPE: Grant		3c. DUNS NUMBER:	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		2. AUTHORITY: 10 USC 2358, 31 USC 6304		7. PR NO.: 02PR07507-00	
5. MODIFICATION NO.: A00004		6. MODIFICATION TYPE: Administrative		PAGE 1 of 5	
9. RECIPIENT PROPOSAL NO.: N/A		10. PROPOSAL DATE: N/A		11. ACTIVITY TYPE: Research	
13. ISSUED TO 13a. ADDRESS:  PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907		13b. CAGE: 4B877		13c. ED/ET NUMBER: 4301AO	
13d. BUSINESS OFFICE CONTACT:		14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13			
13e. TELEPHONE NUMBER:		13f. EMAIL ADDRESS:			
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Manufacturable Power Switching Devices					
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:		(b) (4)		\$.00 (b) (4)	
OBLIGATED BY THIS ACTION:		(b) (4)		\$.00 (b) (4)	
TOTAL OBLIGATED ON AWARD:		(b) (4)		\$.00 (b) (4)	
FUTURE FUNDING:		(b) (4)		\$.00 (b) (4)	
GRANT TOTAL:		(b) (4)		\$.00 \$10,449,588.81	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 29-SEP-1995 THROUGH 31-DEC-2000					
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: (PI) James A. Cooper		21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper		21b. CODE: ONR 312	
20b. TELEPHONE NUMBER: (765) 4943514		20c. EMAIL ADDRESS: cooperj@ecn.purdue.edu		21c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
22. AWARDING OFFICE CONTACT 22a. NAME: Yolanda Williams		22b. CODE: ONR 245		21d. TELEPHONE NUMBER: (703) 6961437	
22c. ADDRESS: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588		23a. ADMINISTRATIVE OFFICE:  OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 Fax: (312) 3532094		21e. EMAIL ADDRESS: zolperj@cnr.navy.mil	
22d. TELEPHONE NUMBER: (312) 8865423		22e. EMAIL ADDRESS: williams@cnr.navy.mil		23b. CODE: N62880	
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS CHARLESTON, SC		25b. CODE: N68892	
				26a. PATENT OFFICE: OFFICE OF NAVAL RESEARCH ATTN: ONR 00CC BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
				26b. CODE: N00014	

AWARD NO. N00014-95-1-1302		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. A00004	PAGE 2 of 5
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/02/024/offices.htm">http://www.onr.navy.mil/02/024/offices.htm</a>					
Full Delegation					
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.					
DOCUMENT		URL		CLAUSES	
30. OPTIONS	OPTION NO.	AMOUNT	PERIOD		
(1)					
(2)					
(3)					
(4)					
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".					
ADDRESSEE		REPORT TYPE		COPIES	
See block #21 (Frequency)		Final Technical Report w/ SF298 Performance/Technical Report (As Required) w/ SF298		1 1	
See block #23a		Report of Inventions and Subcontracts - DD 882 Final Technical Report - Transmittal letter only Performance/Technical Report (As Required) Final Financial Status Report - SF269A - If advances used		1 1 1 1	
See block #26a		Report of Inventions and Subcontracts - DD 882		1	
DEFENSE TECHNICAL INFORMATION CENTER 8725 JOHN J KINGMAN ROAD STE 0944 FORT BELVOIR VA 22060-6218		Final Technical Report w/ SF298 Performance/Technical Report (As Required) w/ SF298		1 1	
NAVAL RESEARCH LABORATORY ATTN: CODE 5227 4555 OVERLOOK AVENUE SW WASHINGTON DC 20375-5320		Final Technical Report w/ SF298 Performance/Technical Report (As Required) w/ SF298		1 1	
32. FOR THE RECIPIENT			33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD			33a. SIGNATURE OF AWARDOFFICER  (b) (6)		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33c. DATE SIGNED	
				29-JAN-2002	
		John Chiappe			



# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302			2. SPIIN (CRITICAL)		3. MOD (CRITICAL) A00004			4. PR NUMBER 02PR07507-00					PAGE 3 OF 5		
CLIN/SLIN	6. LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE				
											PROJ UNIT	MCC	PDLI & SUF		
	AF	9700400	WBBB	255	RA	369	0	068342	2D	000000	R1103	000	URIJ	-\$411.19	PR#02PR07507-00 FRC:URIJ
PAGE TOTAL														-\$411.19	
GRAND TOTAL														-\$411.19	
PREPARED/AUTHORIZED BY:							COMPTROLLER APPROVAL:								
DATE:							FOR FISCAL DATA AND SIGNATURE								
							BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED								

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302		2. SPIIN (CRITICAL)		3. MOD (CRITICAL) A00004		4. PR NUMBER 02PR07507-00		PAGE 4 OF 5	
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION				8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
		<p style="font-size: 1.2em;">This page is intentionally blank</p>							
PAGE TOTAL						\$ .00			
GRAND TOTAL						\$ .00			
PREPARED/AUTHORIZED BY:  DATE:					COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:				

AWARD NO.

N00014-95-1-1302

## SPECIAL REQUIREMENTS

MODIFICATION NO.

A00004

PAGE

5 of 5

The purpose of this modification is to deobligate \$411.19. No further funding will be provided under this award.

## GRANT MODIFICATION

### Granting Agency:

Department of the Navy  
Office of Naval Research  
Chicago Regional Office  
Federal Building, Room 208  
Attn: Betty L. Brown  
Chicago, IL 60605-1509

### Grant Information:

Grant No: N00014-95-1-1302  
Modification: A00003  
ACO Code: N62880  
S.O. Code: 342  
Cage Code: 4B877  
Disbursing Code: N68892  
P.I.: James Cooper

### Grant Recipient:

**PURDUE RESEARCH FOUNDATION**  
Division of Sponsored Programs  
Hovde Hill Third floor  
West Lafayette, IN 47907

### Funding Amount:

Increase/Decrease: \$ -0-

### Appropriation Data:

N/A

### Authority:

U.S.C. 2358, as amended; 31 U.S.C. 6304

**Modification Purpose:** The purpose of this modification is to extend the period of performance of Grant N00014-95-1-1302 at no additional cost to the Government.

**PERIOD** of the Grant Schedule is hereby revised as follows:

"PERIOD: The research work under this grant shall be conducted through 31 DEC 00. A final report will be prepared, submitted, reproduced and distributed by sixty (60) days thereafter, unless the grant is extended, in which case, the final report will be prepared in accordance with the terms of such extension."


All terms and conditions remain unchanged.

For The Office of Naval Research

**(b) (6)**

JOHN A. CHIAPPE  
Administrative Grants Officer

Effective Date: 09 Aug 2000

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
				3b. CFDA: 12.300	
4. AWARD NO.: N00014-95-1-1302		5. MODIFICATION NO.: P00007		6. MODIFICATION TYPE: Administrative	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 00PR03080-01	
13. ISSUED TO 13a. ADDRESS:  PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907		13b. CAGE: 4B877		13c. EDI/EFT NUMBER: 4301AO	
13d. BUSINESS OFFICE CONTACT:		14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13		PAGE 1 of 5	
13e. TELEPHONE NUMBER:		13f. EMAIL ADDRESS:		10. PROPOSAL DATE: N/A	
11. ACTIVITY TYPE: Research		12. PROGRAM TYPE: N/A		15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Manufacturable Power Switching Devices	
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:		(b) (4)		\$ .00	
OBLIGATED BY THIS ACTION:		(b) (4)		\$ .00	
TOTAL OBLIGATED ON AWARD:		(b) (4)		\$ .00	
FUTURE FUNDING:		(b) (4)		\$ .00	
GRANT TOTAL:		(b) (4)		\$ .00 \$10,450,000.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A		18. PERIOD OF PERFORMANCE 29-SEP-1995 THROUGH 31-DEC-2000		19. ACCOUNTING AND APPROPRIATION DATA:	
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: (PI) James A. Cooper		21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper		21b. CODE: ONR 312	
20b. TELEPHONE NUMBER: (765) 4943514		20c. EMAIL ADDRESS: cooperj@ecn.purdue.edu		21c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
22. AWARDING OFFICE CONTACT 22a. NAME: Carol A. Porter		22b. CODE: ONR 251		21d. TELEPHONE NUMBER: (703) 6961437	
22c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660		22d. TELEPHONE NUMBER: (703) 6962587		21e. EMAIL ADDRESS: zolperj@onr.navy.mil	
22e. EMAIL ADDRESS: porterca@onr.navy.mil		23a. ADMINISTRATIVE OFFICE:  OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 Fax: (312) 3532094		23b. CODE: N62880	
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS CHARLESTON, SC		25b. CODE: N68892	
26a. PATENT OFFICE:		26b. CODE:			



AWARD NO. N00014-95-1-1302		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00007		PAGE 2 of 5	
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment							
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/02/024/offices.htm">http://www.onr.navy.mil/02/024/offices.htm</a>							
Full Delegation							
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.							
DOCUMENT		URL				CLAUSES	
30. OPTIONS							
OPTION NO.		AMOUNT		PERIOD			
(1)							
(2)							
(3)							
(4)							
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".							
ADDRESSEE		REPORT TYPE				COPIES	
32. FOR THE RECIPIENT				33. FOR THE UNITED STATES OF AMERICA			
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD				33a. SIGNATURE OF AWARDOFFICER  (b) (6)			
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARDOFFICER Lambert C. McCullough		33c. DATE SIGNED 27-JUL-2000	

# FINANCIAL ACCOUNTING DATA SHEET - NAVY


1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302		2. SPIIN (CRITICAL)		3. MOD (CRITICAL) P00007			4. PR NUMBER 00PR03080-01					PAGE 3 OF 5			
CLIN/SLIN	6. LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE				
											PROJ UNIT	MCC			PDLI & SUF
<p style="font-size: 24px; opacity: 0.5;">This page is intentionally blank</p>															
												PAGE TOTAL	\$ .00		
												GRAND TOTAL	\$ .00		
PREPARED/AUTHORIZED BY:						COMPTROLLER APPROVAL:									
DATE:						FOR FISCAL DATA AND SIGNATURE									
						BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED									
						DATE:									

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302		2. SPIN (CRITICAL)		3. MOD (CRITICAL) P00007		4. PR NUMBER 00PR03080-01		PAGE 4 OF 5	
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION				8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
		This page is intentionally blank							
PAGE TOTAL						\$ .00			
GRAND TOTAL						\$ .00			
PREPARED/AUTHORIZED BY:					COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE: _____				
DATE:									



AWARD NO. N00014-95-1-1302	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00007	PAGE 5 of 5
<p>The purpose of this PR is to provide a no cost extension for grant N000149511302 through 31 Dec 2000.</p>			

		AWARD/ MODIFICATION		3a. ISSUED BY: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300	
4. AWARD NO.: N00014-95-1-1302		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER: 008963233	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		5. MODIFICATION NO.: P00006		6. MODIFICATION TYPE: Increment	
9. RECIPIENT PROPOSAL NO.: N/A		10. PROPOSAL DATE: Undated		7. PR NO.: 00PR03080-00	
13. ISSUED TO 13a. ADDRESS:  PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907		13b. CAGE: 4B877		13c. EDI/EFT NUMBER: 4301AO	
13d. BUSINESS OFFICE CONTACT:		14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13			
13e. TELEPHONE NUMBER:					
13f. EMAIL ADDRESS:					
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Manufacturable Power Switching Devices					
16. FUNDING PREVIOUSLY OBLIGATED: OBLIGATED BY THIS ACTION: TOTAL OBLIGATED ON AWARD: FUTURE FUNDING: GRANT TOTAL:		ACTIVITY/AGENCY SHARE (b) (4) (b) (4) (b) (4) (b) (4) \$10,450,000.00		RECIPIENT SHARE \$ .00 \$ .00 \$ .00 \$ .00 \$ .00	
		TOTAL (b) (4) (b) (4) (b) (4) (b) (4) \$10,450,000.00		17. CURRENT FUNDING PERIOD N/A THROUGH N/A	
				18. PERIOD OF PERFORMANCE 29-SEP-1995 THROUGH 28-SEP-2000	
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: (PI) James A. Cooper		21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper		21b. CODE: ONR 312	
20b. TELEPHONE NUMBER: (765) 4943514		20c. EMAIL ADDRESS: cooperj@ecn.purdue.edu		21c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660	
22. AWARING OFFICE CONTACT 22a. NAME: Carol A. Porter		22b. CODE: ONR 251		23a. ADMINISTRATIVE OFFICE: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 Fax: (312) 3532094, Email: fryet@onr.navy.mil	
22c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660		22d. TELEPHONE NUMBER: (703) 6962587		22e. EMAIL ADDRESS: porterc@onr.navy.mil	
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS CHARLESTON, SC		25b. CODE: N68892	
				26a. PATENT OFFICE: 26b. CODE:	

AWARD NO. N00014-95-1-1302		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00006	PAGE 2 of 5
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/02/024/offices.htm">http://www.onr.navy.mil/02/024/offices.htm</a>					
Full Delegation					
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.					
DOCUMENT		URL		CLAUSES	
30. OPTIONS      OPTION NO.    AMOUNT      PERIOD					
(1)					
(2)					
(3)					
(4)					
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ADDRESSEE		REPORT TYPE		COPIES	
32. FOR THE RECIPIENT		33. FOR THE UNITED STATES OF AMERICA			
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN		33a. SIGNATURE OF AWARDOFFICER			
		(b) (6)			
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARDOFFICER	
				Lambert C. McCullough	
				33c. DATE SIGNED	
				16-NOV-1999	

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302		2. SPIIN (CRITICAL)		3. MOD (CRITICAL) P00006		4. PR NUMBER 00PR03080-00		PAGE 4 OF 5	
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION				8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
		This page is intentionally blank							
						PAGE TOTAL	\$.00		
						GRAND TOTAL	\$.00		
PREPARED/AUTHORIZED BY:  DATE:						COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:			



AWARD NO. N00014-95-1-1302	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00006	PAGE 5 of 5
<p>This modification is to provide final increment of funds.</p>			



**Office of Naval Research, Chicago Region**

**536 South Clark Street**

**Room 208**

**Chicago, IL 60605-1588**

**Phone: (312) 886-5423**

**Fax: (312) 353-2094**

**ACO Code: N62880**

**AWARD MODIFICATION**

**Award Number: N00014-95-1-1302**

**Modification Number: A00002**

**Title: MANUFACTURABLE POWER SWITCHING DEVICES**

**Award Recipient: PURDUE RESEARCH FOUNDATION  
HOVDE HALL THIRD FLOOR**

**WEST LAFAYETTE IN 47907**

**Authority: 10 U.S.C. 2358, as amended; 31 U.S.C. 6304**

**This award modification eliminates the requirement for prior approvals for foreign travel.**

**All other conditions and terms remain unchanged.**

**For the Office of Naval Research:**

**/SIGNED/**

**David J. Wyner  
Administrative Contracting Officer**

**Effective Date: 10/1/98**

Office of Naval Research  
ONR 251:Elizabeth L. Ford (703) 696-2576  
Ballston Centre Tower One  
800 North Quincy Street  
Arlington, VA 22217-5660

GRANT NO:	N00014-95-1-1302
MOD NUMBER:	P00005
PR NUMBER:	99PR03240-00
P.O. CODE:	312
DISBURSING CODE:	N68892
AGO CODE:	N62880
CAGE CODE:	4B877
PI:	James A. Cooper

CFDA No: 12.300

## RESEARCH GRANT

**GRANTEE:** DFAS OLC EDI/EFT VENDOR NUMBER 4301AO  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

**EDI/EFT**

**APPROPRIATION:** See attached *Financial Accounting Data Sheet(s)*.

**TOTAL AMOUNT OF GRANT:** \$10,450,000.00

**AUTHORITY:** 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

## GRANT SCHEDULE

**GRANT PURPOSE:** The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached *Financial Accounting Data Sheet(s)*.

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

**"INCREMENTALLY FUNDED GRANTS:** This Grant is incrementally funded. The total amount of this Grant is \$10,450,000.00. The amount currently available for payment is \$8,697,000.00. The Government's obligation for the difference of \$1,753,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of

BY

(b) (6)

Grants Officer

Elizabeth Ford  
Grants Officer

DATE

DEC 1 1998

GRANT NUMBER: N00014-95-1-1302/P00005



# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1.CONTRACT NUMBER (CRITICAL) N000149511302		2.SPIN (CRITICAL)		3.MOD (CRITICAL) P00005		4.PR NUMBER 99PR03240-00				PAGE 1 OF 1					
CLIN/SLIN	6.LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE				
										PROJ UNIT	MCC	PDI & SUF			
	AE	9790400	WBBB	000	RA	353	0	068342	2D	000000	R1103	000	URIJ	2,090,000.00	PR#99PR03240-00 FRC:URIJ
PAGE TOTAL														\$2,090,000.00	
GRAND TOTAL														\$2,090,000.00	
PREPARED/AUTHORIZED BY:										COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:					
DATE:															

Office of Naval Research  
ONR 251:Elizabeth L. Ford (703) 696-2576  
Ballston Centre Tower One  
800 North Quincy Street  
Arlington, VA 22217-5660

GRANT NO:	N00014-95-1-1302
MOD NUMBER:	P00004
PR NUMBER:	98PR02984-01
P.O. CODE:	312
DISBURSING CODE:	N68892
AGO CODE:	N62880
CAGE CODE:	4B877
PI:	James A. Cooper

CFDA No: 12.300

## RESEARCH GRANT

**GRANTEE:** DFAS OLC EDI/EFT VENDOR NUMBER 4301AO  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

**EDI/EFT**

**APPROPRIATION:** See attached *Financial Accounting Data Sheet(s)*.

**TOTAL AMOUNT OF GRANT:** \$10,450,000.00

**AUTHORITY:** 10 USC 2358 as amended, and 31 USC 6304

## GRANT SCHEDULE

**GRANT PURPOSE:** The purpose of this modification is to exercise an option and provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amount set forth on the attached *Financial Accounting Data Sheet(s)*.

The total amount of this Grant is revised to read \$10,450,000.00

The period of this grant is revised to read: 29 SEP 95 to 28 SEP 00.

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised or reinstated as follows:

**"INCREMENTALLY FUNDED GRANTS:** This Grant is incrementally funded. The total amount of this Grant is \$10,450,000.00. The amount currently available for payment is \$6,607,000.00, which amount covers the period 29 SEP 95 through 29 NOV 98. The Government's obligation for the difference of \$3,843,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

All other terms and conditions of this grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Research

BY

(b) (6)

LAMBERT C. McCULLOUGH  
Grants Officer

Grants Officer /

DATE

1-8-98

# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1.CONTRACT NUMBER (CRITICAL) N000149511302		2.SPIIN (CRITICAL)		3.MOD (CRITICAL) P00004		4.PR NUMBER 98PR02984-01		PAGE 1 OF 1								
CLIN/SLIN	6.LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE					
											PROJ UNIT	MCC				PDLI & SUF
	AD	9780400	WBBB	000	RA	353	0	068342	2D	000000	R1103	000	URIJ	337,000.00		PR#98PR02984-01 FRC:URIJ
PAGE TOTAL														\$337,000.00		
GRAND TOTAL														\$337,000.00		
PREPARED/AUTHORIZED BY:										COMPTROLLER APPROVAL:						
DATE:										DATE:						

Office of Naval Research  
ONR 245:Dildree Ivery (312) 886-5423  
Ballston Centre Tower One  
800 North Quincy Street  
Arlington, VA 22217-5660

GRANT NO:	N00014-95-1-1302
MOD NUMBER:	P00003
PR NUMBER:	98PR02984-00
P.O. CODE:	312
DISBURSING CODE:	N68892
AGO CODE:	N62880
CAGE CODE:	4B877
PI:	James A. Cooper

CFDA No: 12.300

## RESEARCH GRANT

**GRANTEE:** DFAS OLC EDI/EFT VENDOR NUMBER 4301AO  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

**EDI/EFT**

**APPROPRIATION:** See attached *Financial Accounting Data Sheet(s)*.

**TOTAL AMOUNT OF GRANT:** \$6,270,000.00

**AUTHORITY:** 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

## GRANT SCHEDULE

**GRANT PURPOSE:** The purpose of this modification is to provide the final increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached *Financial Accounting Data Sheet(s)*.

Paragraph entitled "INCREMENTALLY FUNDED GRANTS" is deleted in its entirety.



All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Research

BY

(b) (6)

Grants Officer

DATE

05 JAN 98

Helen Paul  
Grants Officer

GRANT NUMBER: N00014-95-1-1302/P00003

# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1.CONTRACT NUMBER (CRITICAL) N000149511302		2.SPIIN (CRITICAL)		3.MOD (CRITICAL) P00003		4.PR NUMBER 98PR02984-00		PAGE 1 OF 1								
CLIN/SLIN	6.LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN		
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE					
											PROJ UNIT	MCC			PDLI & SUF	
	AD	9780400	WBBB	000	RA	353	0	068342	2D	000000	R1103	000	URIJ	1,734,667.00	PR#98PR02984-00 FRC:URIJ	
														PAGE TOTAL	\$1,734,667.00	
														GRAND TOTAL	\$1,734,667.00	
PREPARED/AUTHORIZED BY:										COMPTROLLER APPROVAL:						
DATE:										DATE:						

Office of Naval Research  
ONR 245:Francisca C. Ramos (312) 886-5423  
Ballston Centre Tower One  
800 North Quincy Street  
Arlington, VA 22217-5660

GRANT NO:	N00014-95-1-1302
MOD NUMBER:	P00002
PR NUMBER:	97PR03362-00
P.O. CODE:	312
DISBURSING CODE:	N68892
AGO CODE:	N62880
CAGE CODE:	4B877
PI:	James A. Cooper

CFDA No: 12.300

## DOMESTIC RESEARCH GRANT

**GRANTEE:** NRFCWASH EDI/EFT VENDOR NUMBER 4301AO  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

**EDI/EFT**

**APPROPRIATION:** See attached *Financial Accounting Data Sheet(s)*.

**TOTAL AMOUNT OF GRANT:** \$6,270,000.00

**AUTHORITY:** 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

## GRANT SCHEDULE

**GRANT PURPOSE:** The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached *Financial Accounting Data Sheet(s)*.

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

**"INCREMENTALLY FUNDED GRANTS:** This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$4,535,833.00, which amount covers the period 29 SEP 95 through 31 OCT 97. The Government's obligation for the difference of \$1,734,667.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

If a payment schedule was previously included in this grant, it is hereby deleted in its entirety. If there is a desire to continue advanced payments and a payment schedule, the grantee must contact the Administrative Grants Officer to negotiate such provisions into this grant under OMB Circular A-110. Where the payment schedule was already deleted under a previous modification or where the grantee has already negotiated a payment schedule with the Administrative Grants Officer, this paragraph does not apply.

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Research

BY

(b) (6)

Elizabeth Ford  
Grants Officer

DATE

DEC 6 1996

GRANT NUMBER: N00014-95-1-1302/P00002



# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1.CONTRACT NUMBER (CRITICAL) N000149511302		2.SPIN (CRITICAL)		3.MOD P00002		4.PR NUMBER 97PR03362-00		PAGE 1 OF 1							
CLIN/SLIN	6.LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE				
											PROJ UNIT	MCC			PDI & SUF
	AC	9770400	WBBB	000	RA	353	0	068342	2D	000000	R1103	000	URIJ	1,393,333.00	PR#97PR03362-00 FRC:URIJ
PAGE TOTAL														\$1,393,333.00	
GRAND TOTAL														\$1,393,333.00	
PREPARED/AUTHORIZED BY:										COMPTROLLER APPROVAL:					
DATE:										CONTRACT REVIEWED FOR FISCAL DATA AND SIGNATURE (b) (6) for COMPTROLLER, ONR					
FAD1										DATE: 12-11-2002					



Office of Naval Research  
ONR 252:Julia M. Gallmon (703) 696-2609  
Ballston Centre Tower One  
800 North Quincy Street  
Arlington, VA 22217-5660

CFDA No: 12.300

GRANT NO:	N00014-95-1-1302
MOD NUMBER:	P00001
PR NUMBER:	96PR05125-00
P.O. CODE:	312
DISBURSING CODE:	N00179
AGO CODE:	N62880
CAGE CODE:	4B877
PI:	James A. Cooper

## DOMESTIC RESEARCH GRANT

**GRANTEE:** PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

**APPROPRIATION:** See attached *Financial Accounting Data Sheet(s)*.

**TOTAL AMOUNT OF GRANT:** \$6,270,000.00

**AUTHORITY:** 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

## GRANT SCHEDULE

**GRANT PURPOSE:** The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached *Financial Accounting Data Sheet(s)*.

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

**"INCREMENTALLY FUNDED GRANTS:** This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$3,142,000.00, which amount covers the period 29 SEP 95 through 31 OCT 96. The Government's obligation for the difference of \$3,128,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

If a payment schedule was previously included in this grant, it is hereby deleted in its entirety. If there is a desire to continue advanced payments and a payment schedule, the grantee must contact the Administrative Grants Officer to negotiate such provisions into this grant under OMB Circular A-110. Where the payment schedule was already deleted under a previous modification or where the grantee has already negotiated a payment schedule with the Administrative Grants Officer, this paragraph does not apply.

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Research

BY

(b) (6)

Grants Officer

LAMBERT C. McCULLOUGH  
Grants Officer

DATE

3/13/96

GRANT NUMBER: N00014-95-1-1302

# FINANCIAL ACCOUNTING DATA SHEET - NAVY

1.CONTRACT NUMBER (CRITICAL) N000149611302		2.SPIIN (CRITICAL)		3.MOD P00001		4.PR NUMBER 96PR05125-00		PAGE 1 OF 1							
CLIN/SLIN	6.LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE				
	PROJ UNIT	MCC	POLI & SUF												
Sub. Date:	AB 06 MAR 96	9760400 PR#96PR05125-00	WBBB FRC: URIJ	000	RA	353	0	068342	2D	000000	R1103	000	URIJ	1,742,000.00	
PAGE TOTAL														\$1,742,000.00	
GRAND TOTAL														\$1,742,000.00	
PREPARED/AUTHORIZED BY:										COMPTROLLER APPROVAL:					
DATE:										CONTRACT REVIEWED FOR FISCAL DATA AND SIGNATURE BY (b) (6) for COMPTROLLER, ONR					
FAD1										DATE: 3/20/96					

OFFICE OF NAVAL RESEARCH  
ONR 251:C. COLEMAN (703)696-4516  
BALLSTON TOWER ONE  
800 NORTH QUINCY STREET  
ARLINGTON VA 22217-5660  
CFDA NO.: 12.300

GRANT NO: N00014-95-1-1302  
R&T PROJECT: 1213017---01

ONR PM/PO: 312  
DISBURSING CODE: N00179  
AGO CODE: N62880  
CAGE CODE: 4B877  
P.I.: James A. Cooper

RESEARCH GRANT

GRANTEE: PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

APPROPRIATION:

AA 9750400.WBBB 025 RA359 0 068342 2D 61103D R1103 0009120 \$1,400,000.00  
FRC: urij

R&T Project Code: 1213017---01, Dated: 26 JUL 1995

CONTRACT REVIEWED FOR FISCAL DATA AND  
SIGNATURE BY HC 9/21/95

TOTAL AMOUNT OF GRANT: \$6,270,000.00 for COMPTROLLER, ONR

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

1. GRANT PURPOSE: The purpose of this Grant is to support research in accordance with Grantee's proposal dated 08 MAR 1995, revised 10 JUL 1995, entitled "Manufacturable Power Switching Devices," which is incorporated herein by reference.
2. PERIOD: The Grant is for the period 29 SEP 1995 through 28 SEP 1998.
3. TERMS AND CONDITIONS: This Grant is subject to the Office of Naval Research General Terms and Conditions for Educational Institutions, Non-profit Organizations, and State and Local Government dated July 1995 which are incorporated herein by reference and listed by title in Exhibit A and to any special terms and conditions contained in this Grant schedule.
4. PRINCIPAL INVESTIGATOR: The Principal Investigator, Professor James A. Cooper, shall be continuously responsible for the research project.



5. PROGRAM MANAGER/OFFICE : The Program Manager/Officer representing the United States Government is Alvin M. Goodman, ONR 312, OFFICE OF NAVAL RESEARCH, BALLSTON TOWER ONE, 800 NORTH QUINCY STREET, ARLINGTON, VIRGINIA 22217-5660. (703) 696-4218

6. ADMINISTRATIVE GRANTS OFFICER: The Administrative Grants Officer for this Grant is:

OFFICE OF NAVAL RESEARCH  
REGIONAL OFFICE CHICAGO  
536 S CLARK STREET ROOM 208  
CHICAGO IL 60605-1588

7. PAYMENTS: Upon acceptance of the terms and conditions of this grant, the Grantee may submit requests for reimbursement using an original Standard Form 270 (SF 270), plus two copies, to the Administrative Grants Officer (AGO). Requests for payment may not exceed the amount obligated to this grant.

If advance payments are desired, the grantee may submit SF-270 in accordance with OMB Circular A-110. Section 11 of the SF-270 must be completed in its entirety. At the discretion of the AGO, a payment schedule may be required of the grantee.

8. REPORTS AND REPORT DISTRIBUTION: Reports shall be furnished as specified in Attachment Number 1 entitled, "Reports and Report Distribution," of this Grant. The Grantee shall include a complete "Report Documentation Page" (SF 298) as the last page of each copy of every scientific and technical report prepared under this Grant. The form contains instructions for preparation. The cognizant Grant Administrator will provide assistance to the Grantee in obtaining the required form. Administrative type reports, managerial (status) reports, and reprints submitted as technical reports are excluded from this requirement.

9. INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$1,400,000.00, which amount covers the period 29 SEP 1995 through 30 APR 1996. The Government's obligation for the difference of \$4,870,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant.

10. The following clause is incorporated in full text and is applicable to grants and cooperative agreements with institutions of higher learning.

DoDGARS 23.1 MILITARY RECRUITING ON CAMPUS (Interim Rule, 60 FR 4544-45, 24 January 1995.)

As a condition for receipt of funds available to the Department of Defense (DoD) under this award, the recipient agrees that it is not an institution that has a policy of denying, and that it is not an institution that effectively prevents, the Secretary of Defense from obtaining for military recruiting purposes: (A) entry to campuses or access to students on campuses; or (B) access to directory information pertaining to students. If the recipient is determined, using procedures



established by the Secretary of Defense to implement Section 558 of Public Law 103-337 (1994), to be such an institution during the period of performance of this agreement, and therefore to be in breach of this clause, the Government will cease all payments of DoD funds under this agreement and all other DoD grants and cooperative agreements, and it may suspend or terminate such grants and agreements unilaterally for material failure to comply with the terms and conditions of award. (End of clause)

# 11. GRANTEE ACQUISITION OF GOODS OR SERVICES:

In accordance with Section 621 of Public Law 103-123, no amount of funding provided by this Grant may be used by the Grantee to finance the acquisition of goods or services (including construction services) unless, in any solicitation issued by the Grantee to procure such goods and/or services with a value of at least \$500,000, the Grantee: (1) announces the amount of federal funds that will be used to finance the acquisition for which offers are being solicited; and (2) also expresses the amount of federal funding as a percentage of the total cost of the planned acquisition.

12. OPTION TO RENEW: The Government may require the continuation of the research as detailed in the Grant Purpose section herein for the period 29 SEP 1998 through 28 SEP 2000 under Option 1. The Grants Officer may exercise the option and/or options by written notice to the Grantee. This notice shall be given no later than sixty (60) days prior to completion of the performance period of the Grant. The total negotiated amounts of Option 1 is \$4,180,000.00.

# 13. UNEXPENDED FUNDS AND EARNED INTEREST:

a. At the end of the grant period, any unexpended balances of funds provided by the grant shall be remitted to the address given in the above paragraph titled "Administrative Grants Officer," by check made payable to the "Office of Naval Research."

b. Any interest earned by grant funds on deposit shall be remitted annually to the Department of Health and Human Services, Payment Management System, P. O. Box 6021, Rockville, MD 20852 U.S.A., by check payable to "Department of Health and Human Services."

UNITED STATES OF AMERICA

OFFICE OF NAVAL RESEARCH

by

(b) (6)

LAMBERT C. McCULLOUGH

Date

9/21/95

ATTACHMENT NUMBER 1REPORTS AND REPORT DISTRIBUTIONREPORT TYPES

- (a) Performance (Technical) Report(s) (Include letter report(s))  
Frequency: As Requested
- (b) Final Technical Report, issued at completion of Grant.
- (c) Final Financial Status Report (SF 269)
- (d) Final Patent Report (DD882)

REPORTS DISTRIBUTION

<u>ADDRESSEES</u>	<u>REPORT TYPES</u>	<u>NUMBER OF COPIES</u>
PROGRAM MANAGER/OFFICER ONR: 312 ALVIN M. GOODMAN OFFICE OF NAVAL RESEARCH BALLSTON TOWER ONE 800 NORTH QUINCY STREET ARLINGTON, VIRGINIA 22217-5660	(a) & (b)	3
ADMINISTRATIVE GRANTS OFFICER OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588	(a), (b), (c) & (d)	1
DIRECTOR, NAVAL RESEARCH LABORATORY ATTN: Code 2627 WASHINGTON, DC 20375	(a) & (b)	1
DEFENSE TECHNICAL INFORMATION CENTER BUILDING 5, CAMERON STATION ALEXANDRIA, VIRGINIA 22304-6145	(a) & (b)	2
OFFICE OF NAVAL RESERACH BALLSTON TOWER ONE ATTN ONR OOCCL MR WILLIAM F MCCARTHY 800 NORTH QUINCY STREET ARLINGTON, VIRGINIA 22217-5660	(d)	1

If the Program Manager/Officer directs, the Grantee shall make additional distribution of technical reports in accordance with a supplemental distribution list provided by the Program Manager/Officer. The supplemental distribution list shall not exceed 250 addresses.

## EXHIBIT A

The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request, the Administrative Grants Officer named herein will make their full text available.

### OFFICE OF NAVAL RESEARCH

#### GRANT GENERAL TERMS AND CONDITIONS FOR EDUCATIONAL INSTITUTIONS, NONPROFIT ORGANIZATIONS, AND STATE AND LOCAL GOVERNMENT

#### ARTICLE

1. Federal Requirements
2. Order of Precedence
3. Administration and Cost Principles
4. Research Responsibilities
5. Amendment of Grant
6. University Grantees
7. Principal Investigator
8. Publications
9. Acknowledgment of Sponsorship
10. Grantee-Acquired Property
11. Patent Rights
12. Rights in Technical Data and Computer Software
13. Human Subjects
14. Animal Welfare
15. Research Involving Recombinant DNA Molecules
16. Foreign Travel Approval
17. Activities Abroad
18. Nondiscrimination
19. Clean Air and Water
20. U.S. Flag Air Carriers
21. Security
22. Subawards and Contracts/Subcontracts
23. New Restrictions on Lobbying



Code: ONR 251

7/28/2000 L.S.

NAVOCNR 4200/1 (Rev. 4-92)

9.

Code: ONR 251

NAVOCNR 4200/1 (Rev. 4-92)



## Grant Distribution

PR Number: 00PR03080-00  
Grant Number: N00014-95-1-1302/P00006  
Specialist: CAP ONR: 251

Distribution Date:

11-18-89

Distributed By:

(b) (6)

— PCO, ONR Arlington (Original)

— Grantee (Duplicate Original)  
Short Contractor Code and Address:  
PURD  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

— ACO  
ACO MILSCAP Code and Address  
N62880:  
OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO  
FAX 312 353 2094  
536 S CLARK STREET ROOM 208  
CHICAGO, IL 60605-1588

— Payment Office  
DODAAD Code and Address  
N68892:  
DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER  
CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP  
PO BOX 118054  
CHARLESTON, SC 29423-8054

— ONR:  
00CC  
Program Officer: John C. Zolper, ONR 312

## Grant Distribution

PR Number: 99PR03240-00  
Grant Number: N00014-95-1-1302/P00005  
Specialist: ELF ONR: 251

Distribution Date: 12-2-98

Distributed By: (b) (6)

— PCO, ONR Arlington (Original)

— Grantee (Duplicate Original)  
Short Contractor Code and Address:  
PURD  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

— ACO  
ACO MILSCAP Code and Address  
N62880:  
OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO  
536 S CLARK STREET ROOM 208  
CHICAGO, IL 60605-1588

— Payment Office  
DODAAD Code and Address  
N68892:  
DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER  
CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP  
PO BOX 118054  
CHARLESTON, SC 29423-8054

— ONR:  
00CC  
Program Officer: John C. Zolper, ONR 312

## Code: ONR 251

NAVOCNR 4200/1 (Rev. 4-92)

<b>INDIVIDUAL GRANT ACTION REPORT</b>						INTERAGENCY REPORT CONTROL NUMBER 0252-DOC-QU	
<b>PART A</b>	A1. TYPE OF REPORT 0      0 Original   1 Cancelling   2 Correcting			A2. REPORT NO. <b>8289</b>		A3. CONTRACTING OFFICE CODE <b>E612A</b>	
	<b>PART B</b>	B1. CONTRACTOR ESTABLISHMENT CODE <b>070710447</b>	B2. CAGE CODE <b>4B877</b>	B3. FICE CODE <b>001825</b>	B4. TIN <b>351052049</b>	B5. PARENT TIN	
B6. RECIPIENT NAME AND DIVISION NAME  <b>PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS</b>			B7. RECIPIENT ADDRESS (Street, City, State)  <b>HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN</b>		B8. RECIPIENT CITY OR PLACE CODE <b>82862</b>	B9. RECIPIENT STATE OR COUNTRY CODE <b>18</b>	
B10. ZIP CODE <b>47907</b>							
B11. TYPE OF RECIPIENT					B12. OTHER RECIPIENT INFORMATION		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. State Government 2. County Government 3. Municipal Government 4. Special District Government 5. Independent School District 6. State Controlled Institutions of Higher Education </div> <div style="width: 45%;"> 7. Indian Tribe 8. Nonprofit Agency (Other than Education) 9. Private Higher Education Institution 10. Individual 11. Profit Organization (Not a Small Business) 12. Small Business 13. All Other </div> </div>					<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. Historically Black Colleges and Universities 2. Minority Institutions 3. Foreign Universities 4. Foreign Nonprofit Organizations 5. Federally Funded Research and Development Center (Academia) 6. Federally Funded Research and Development Center (Nonprofit) 7. Not Applicable </div> <div style="width: 45%; text-align: center;"> <b>07</b> </div> </div>		
<b>PART C</b>	C1. AWARD NUMBER <b>N00014-95-1-1302</b>		C2. MOD NUMBER <b>P00004</b>	C3. OBLIGATION DATE (YYMMDD) <b>98-01-8</b>	C4. PROJECT STARTING DATE (YYMMDD) <b>980115</b>	C5. PROJECT ENDING DATE (YYMMDD) <b>981129</b>	
	C6. TYPE OF ACTION		C7A. FEDERAL OBLIGATION AMOUNT (Enter whole dollars only)	C7B. FEDERAL OBLIGATION SIGN	C9. TOTAL FEDERAL VALUE OF AWARD (Enter whole dollars only)		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. New Award  2. Subsequent Incremental Funding Action 3. Exercise of Option, Additional Research Revision of Research Proposal 4. Funding Adjustments to Completed Project </div> <div style="width: 45%;"> <b>06</b> </div> </div>		C7A. <b>0000337000</b>	C7B. 1. Obligation 2. Deobligation <b>1</b>	C9. <b>0010450000</b>			
C8. TYPE OF ACTION		C8A. NONFEDERAL OBLIGATION AMOUNT (Enter whole dollars)	C8B. NONFEDERAL OBLIGATION SIGN				
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. Revenue Sharing 2. Block Grant 3. Formula Grant </div> <div style="width: 45%;"> 4. Project Grant 5. Cooperative Agreement 6. Direct Payment (Specified Use) </div> </div>			1. Obligation 2. Deobligation				
C10. TYPE OF AWARD		C11. CFDA NUMBER					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. Revenue Sharing 2. Block Grant 3. Formula Grant </div> <div style="width: 45%;"> 4. Project Grant 5. Cooperative Agreement 6. Direct Payment (Specified Use) </div> </div>		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 7. Direct Loan 8. Guaranteed Insured Loan 9. Insurance </div> <div style="width: 45%;"> 10. Direct Payment (Unrestricted Use) 11. Other Reimbursable, Contingent Intangible, Indirect </div> </div>			<b>12.300</b>		
C12. Project Description  <b>Manufacturable Power Switching Devices</b>							
C13. PRIMARY ADMINISTERING AGENCY <b>1700</b>		C14. PRINCIPAL PLACE OF PERFORMANCE		C15. TYPE OF FUNDS			
		C14A. CITY OR PLACE CODE <b>82862</b>	C14B. STATE OR COUNTRY CODE <b>18</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. Basic Research 2. Exploratory Development 3. Advance Development </div> <div style="width: 45%;"> 4. Demonstration/Validation Engineering/Manufacturing Development 5. Management and Support Operations Systems Development 6. Other </div> </div>			
C16. AGENCY APPROPRIATION				C17. EXTENT COMPETED			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. ARMY 2. DMA 3. BMDO </div> <div style="width: 45%;"> 4. OSD 5. ARPA 6. AF </div> </div>				<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 7. NSA 8. DNA 9. DISA </div> <div style="width: 45%;"> 10. DIA 11. USMC 12. NAVY </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 13. DLA 14. USUHS 15. NONDoD 16. OCE 17. OTHER DOD </div> <div style="width: 45%; text-align: center;"> <b>1</b> </div> </div>							
C18. CATEGORY OF SUPPORT (Choose one category).				AMOUNT		C19. CATEGORY OF SCIENCE AND ENGINEERING	
C18A. RESEARCH AND DEVELOPMENT				<b>0000337000</b>		C19A. <b>45</b>	
C18B. FELLOWSHIPS, TRAINEESHIPS				<b>0000000000</b>			
C18C. R&D PLANT				<b>0000000000</b>		C19B. <b>13</b>	
C18D. FACILITIES AND EQUIPMENT FOR SCIENCE AND ENGINEERING (DoD Instrumentation)				<b>0000000000</b>			
C18E. GENERAL SUPPORT FOR SCIENCE AND ENGINEERING				<b>0000000000</b>		C19C.	
C18F. OTHER ACTIVITIES RELATED TO SCIENCE AND ENGINEERING (Conference Symposia)				<b>0000000000</b>			
C18G. ALL OTHER ACTIVITIES NOT RELATED TO SCIENCE AND ENGINEERING				<b>0000000000</b>			
<b>PART D</b>	D1. NAME OF CONTRACTING OFFICER OR REPRESENTATIVE (Last, First, Middle initial) <b>Ford, Elizabeth, L</b>			D2. SIGNATURE <b>(b) (6)</b>		D3. TELEPHONE NUMBER (Include Area Code) <b>(703) 696-2576</b>	
						D4. DATE SIGNED (YYMMDD) <b>980107</b>	



## Code: ONR 251

NAVOCNR 4200/1 (Rev. 4-92)



## Grant Distribution

PR Number: 98PR02984-01  
Grant Number: N00014-95-1-1302/P00004  
Specialist: ELF ONR: 251

Distribution Date: 01-09-98

Distributed By:

(b) (6)

— PCO, ONR Arlington (Original)

— Grantee (Duplicate Original)  
Short Contractor Code and Address:  
PURD  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

— ACO  
ACO MILSCAP Code and Address  
N62880:  
OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO  
536 S CLARK STREET ROOM 208  
CHICAGO, IL 60605-1588

— Payment Office  
DODAAD Code and Address  
N68892:  
DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER  
CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP  
PO BOX 118054  
CHARLESTON, SC 29423-8054

— ONR:  
00CC11  
Program Officer: John C. Zolper, ONR 312

## Grant Distribution

PR Number: 98PR02984-00  
Grant Number: N00014-95-1-1302/P00003  
Specialist: DI ONR: 245

Distribution Date:

106 JAN 1998

Distributed By:

(b) (6)

— PCO, ONR Arlington (Original)

— Grantee (Duplicate Original)  
Short Contractor Code and Address:  
PURD  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

— ACO  
ACO MILSCAP Code and Address  
N62880:  
OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO  
536 S CLARK STREET ROOM 208  
CHICAGO, IL 60605-1588

— Payment Office  
DODAAD Code and Address  
N68892:  
DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER  
CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP  
PO BOX 118054  
CHARLESTON, SC 29423-8054

— ONR:  
00CC11  
Program Officer: John C. Zolper, ONR 312

# INDIVIDUAL GRANT ACTION REPORT

INTERAGENCY  
REPORT  
CONTROL NUMBER  
0252-DOC-QU

PART A	A1. TYPE OF REPORT 0 0 Original 1 Cancelling 2 Correcting		A2. REPORT NO. 7986		A3. CONTRACTING OFFICE CODE E610B	
	B1. CONTRACTOR ESTABLISHMENT CODE 070710447		B2. CAGE CODE 4B877		B3. FICE CODE 001825	
PART B	B4. TIN 351052049		B5. PARENT TIN		B6. RECIPIENT NAME AND DIVISION NAME PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS	
	B7. RECIPIENT ADDRESS (Street, City, State) HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN		B8. RECIPIENT CITY OR PLACE CODE 82862		B9. RECIPIENT STATE OR COUNTRY CODE 18	
B10. ZIP CODE 47907		B11. TYPE OF RECIPIENT				
06		1. State Government 2. County Government 3. Municipal Government 4. Special District Government 5. Independent School District 6. State Controlled Institutions of Higher Education 7. Indian Tribe 8. Nonprofit Agency (Other than Education) 9. Private Higher Education Institution 10. Individual 11. Profit Organization (Not a Small Business) 12. Small Business 13. All Other				
07		B12. OTHER RECIPIENT INFORMATION				
07		1. Historically Black Colleges and Universities 2. Minority Institutions 3. Foreign Universities 4. Foreign Nonprofit Organizations 5. Federally Funded Research and Development Center (Academia) 6. Federally Funded Research and Development Center (Nonprofit) 7. Not Applicable				
PART C	C1. AWARD NUMBER N00014-95-1-1302		C2. MOD NUMBER P00003		C3. OBLIGATION DATE (YYMMDD) 1-5-97	
	C4. PROJECT STARTING DATE (YYMMDD) 971130		C5. PROJECT ENDING DATE (YYMMDD) 000928		C6. TYPE OF ACTION	
2		C7A. FEDERAL OBLIGATION AMOUNT (Enter whole dollars only) 0001734667		C7B. FEDERAL OBLIGATION SIGN 1. Obligation 2. Deobligation 1		C9. TOTAL FEDERAL VALUE OF AWARD (Enter whole dollars only) 0006270000
C8A. NONFEDERAL OBLIGATION AMOUNT (Enter whole dollars)		C8B. NONFEDERAL OBLIGATION SIGN 1. Obligation 2. Deobligation		C10. TYPE OF AWARD		
04		C11. CFDA NUMBER 12.300		C12. Project Description Manufacturable Power Switching Devices		
C13. PRIMARY ADMINISTERING AGENCY 1700		C14. PRINCIPAL PLACE OF PERFORMANCE C14A. CITY OR PLACE CODE 82862 C14B. STATE OR COUNTRY CODE 18		C15. TYPE OF FUNDS 1. Basic Research 2. Exploratory Development 3. Advance Development 4. Demonstration/Validation 5. Engineering/Manufacturing Development 6. Management and Support 7. Operations Systems Development 8. Other 1		
C16. AGENCY APPROPRIATION 1 ARMY 2 DMA 3 BMDO 4 OSD 5 ARPA 6 AF 7 NSA 8 DNA 9 DISA 10 DIA 11 USMC 12 NAVY 13 DLA 14 USUHS 15 NONDoD 16 OCE 17 OTHER DOD 4		C17. EXTENT COMPETED 1. Competed Action 4. Not Competed 1		C18. CATEGORY OF SUPPORT (Choose one category) C18A. RESEARCH AND DEVELOPMENT C18B. FELLOWSHIPS, TRAINEESHIPS C18C. R&D PLANT C18D. FACILITIES AND EQUIPMENT FOR SCIENCE AND ENGINEERING (DoD Instrumentation) C18E. GENERAL SUPPORT FOR SCIENCE AND ENGINEERING C18F. OTHER ACTIVITIES RELATED TO SCIENCE AND ENGINEERING (Conference Symposia) C18G. ALL OTHER ACTIVITIES NOT RELATED TO SCIENCE AND ENGINEERING		
PART D		D1. NAME OF CONTRACTING OFFICER OR REPRESENTATIVE (Last, First, Middle initial) Ivery, Dildree		D2. SIGNATURE (b) (6)		
D3. TELEPHONE NUMBER (Include Area Code) (312) 886-5423		D4. DATE SIGNED (YYMMDD) 971219				

## Code: ONR 245

NAVOCNR 4200/1 (Rev. 4-92)



# INDIVIDUAL GRANT ACTION REPORT

INTERAGENCY  
REPORT  
CONTROL NUMBER  
0252-DOC-QU

PART A	A1. TYPE OF REPORT 0 0 Original 1 Cancelling 2 Correcting		A2. REPORT NO. 4033		A3. CONTRACTING OFFICE CODE E610B	
	B1. CONTRACTOR ESTABLISHMENT CODE 070710447		B2. CAGE CODE 4B877		B3. FICE CODE 001825	
PART B	B4. TIN 351052049		B5. PARENT TIN		B6. RECIPIENT CITY OR PLACE CODE 82862	
	B7. RECIPIENT NAME AND DIVISION NAME PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS		B8. RECIPIENT ADDRESS (Street, City, State) HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN		B9. RECIPIENT STATE OR COUNTRY CODE 18	
B10. ZIP CODE 47907		B11. TYPE OF RECIPIENT		B12. OTHER RECIPIENT INFORMATION		
06		1. State Government 2. County Government 3. Municipal Government 4. Special District Government 5. Independent School District 6. State Controlled Institutions of Higher Education 7. Indian Tribe 8. Nonprofit Agency (Other than Education) 9. Private Higher Education Institution 10. Individual 11. Profit Organization (Not a Small Business) 12. Small Business 13. All Other		1. Historically Black Colleges and Universities 2. Minority Institutions 3. Foreign Universities 4. Foreign Nonprofit Organizations 5. Federally Funded Research and Development Center (Academia) 6. Federally Funded Research and Development Center (Nonprofit) 7. Not Applicable		
PART C	C1. AWARD NUMBER N00014-95-1-1302		C2. MOD NUMBER P00002		C3. OBLIGATION DATE (YYMMDD) 96-12-06	
	C4. PROJECT STARTING DATE (YYMMDD) 961230		C5. PROJECT ENDING DATE (YYMMDD) 971031		C6. TYPE OF ACTION	
2		1. New Award 2. Subsequent Incremental Funding Action 3. Exercise of Option, Additional Research 4. Revision of Research Proposal 5. Funding Adjustments to Completed Project		C7A. FEDERAL OBLIGATION AMOUNT (Enter whole dollars only) 0001393333		C7B. FEDERAL OBLIGATION SIGN 1. Obligation 2. Deobligation 1
C8A. NONFEDERAL OBLIGATION AMOUNT (Enter whole dollars)		C8B. NONFEDERAL OBLIGATION SIGN 1. Obligation 2. Deobligation		C9. TOTAL FEDERAL VALUE OF AWARD (Enter whole dollars only) 0006270000		
C10. TYPE OF AWARD		C11. CFDA NUMBER 12.300		C12. Project Description Manufacturable Power Switching Devices		
04		1. Revenue Sharing 2. Block Grant 3. Formula Grant 4. Project Grant 5. Cooperative Agreement 6. Direct Payment (Specified Use) 7. Direct Loan 8. Guaranteed Insured Loan 9. Insurance 10. Direct Payment (Unrestricted Use) 11. Other Reimbursable, Contingent Intangible, Indirect		C13. PRIMARY ADMINISTERING AGENCY 1700		
C14. PRINCIPAL PLACE OF PERFORMANCE		C15. TYPE OF FUNDS		C16. AGENCY APPROPRIATION		
C14A. CITY OR PLACE CODE 82862		C14B. STATE OR COUNTRY CODE 18		1. Basic Research 2. Exploratory Development 3. Advance Development 4. Demonstration/Validation 5. Engineering/Manufacturing Development 6. Management and Support 7. Operations Systems Development 8. Other		
C16. AGENCY APPROPRIATION		C17. EXTENT COMPLETED		C18. CATEGORY OF SUPPORT (Choose one category)		
4		1. Completed Action 4. Not Completed 1		C18A. RESEARCH AND DEVELOPMENT		
C18B. FELLOWSHIPS, TRAINEESHIPS		C18C. R&D PLANT		C18D. FACILITIES AND EQUIPMENT FOR SCIENCE AND ENGINEERING (DoD Instrumentation)		
C18E. GENERAL SUPPORT FOR SCIENCE AND ENGINEERING		C18F. OTHER ACTIVITIES RELATED TO SCIENCE AND ENGINEERING (Conference Symposia)		C18G. ALL OTHER ACTIVITIES NOT RELATED TO SCIENCE AND ENGINEERING		
C19. CATEGORY OF SCIENCE AND ENGINEERING		C19A. 45		C19B. 13		
C19C.		C19D.		C19E.		
C19F.		C19G.		C19H.		
C19I.		C19J.		C19K.		
C19L.		C19M.		C19N.		
C19O.		C19P.		C19Q.		
C19R.		C19S.		C19T.		
C19U.		C19V.		C19W.		
C19X.		C19Y.		C19Z.		
C19AA.		C19AB.		C19AC.		
C19AD.		C19AE.		C19AF.		
C19AG.		C19AH.		C19AI.		
C19AJ.		C19AK.		C19AL.		
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C19GD.		C19GE.		C19GF.		
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C19GG.		C19GH.		C19GI.		
C19GH.		C19GI.		C19GJ.		
C19GI.		C19GJ.		C19GK.		
C19GJ.		C19GK.		C19GL.		
C19GK.		C19GL.		C19GM.		
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C19GP.		C19GQ.		C19GR.		
C19GQ.		C19GR.		C19GS.		
C19GR.		C19GS.		C19GT.		
C19GS.		C19GT.		C19GU.		
C19GT.		C19GU.		C19GV.		
C19GU.		C19GV.		C19GW.		
C19GV.		C19GW.		C19GX.		
C19GW.		C19GX.		C19GY.		
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C19GY.		C19GZ.		C19HA.		
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C19HA.		C19HB.		C19HC.		
C19HB.		C19HC.		C19HD.		
C19HC.		C19HD.		C19HE.		
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C19JO.		C19JP.		C19JQ.		
C19JP.		C19JQ.		C19JR.		
C19JQ.						



CG 12-5-96

Grant Number: N00014-95-1-1302

Date: 05 Dec 96

Code: ONR 245

NAVOCNR 4200/1 (Rev. 4-92)

Remarks:

## Grant Distribution

PR Number: 97PR03362-00  
Grant Number: N00014-95-1-1302/P00002  
Specialist: FCR ONR: 245

Distribution Date: 12/19/96

Distributed (b) (6)

— PCO, ONR Arlington (Original)

— Grantee (Duplicate Original)  
Short Contractor Code and Address:  
PURD  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

— ACO  
ACO MILSCAP Code and Address  
N62880:  
OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO  
536 S CLARK STREET ROOM 208  
CHICAGO, IL 60605-1588

— Payment Office  
DODAAD Code and Address  
N68892:  
DEFENSE FINANCE AND ACCOUNTING SERVICE CENTER  
CHARLESTON OPERATING LOCATION DFAS CH VENDOR PAY DIVISION CODE FP  
PO BOX 118054  
CHARLESTON, SC 29423-8054

— ONR:  
00CC11  
Program Officer: Alvin M. Goodman, ONR 312

12-6-96

AWARD NUMBER: N00014-95-1-1302  
MODIFICATION NUMBER: A00001

DISTRIBUTION LIST

PCO - OFFICE OF NAVAL RESEARCH, ARLINGTON CODE 21 (ORIGINAL)  
GRANTEE - (DUPLICATE ORIGINAL)  
ACO - ONR CHICAGO REGIONAL OFFICE (ORIGINAL)  
PAYMENT OFFICE - DFAS, CHARLESTON, SC  
ONR CODES - 312, 00CC

## GRANT MODIFICATION

**Granting Agency:**

DEPARTMENT OF THE NAVY  
OFFICE OF NAVAL RESEARCH  
CHICAGO REGION OFFICE  
FEDERAL BUILDING, ROOM 208  
536 SOUTH CLARK STREET  
CHICAGO, ILLINOIS 60605-1588  
ATTN: FRANCISCA C. RAMOS  
(312) 886-5423

**Grant Information:**

GRANT NUMBER: N00014-95-1-1302  
MODIFICATION: A00001  
SCHOOL CODE: PURD  
ACO CODE: N62880  
S.O. CODE: 312  
DISBURSING: N68892  
R&T PROJECT: N/A  
CAGE CODE: 4B877

**Grant Recipient:**

PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL, THIRD FLOOR  
WEST LAFAYETTE IN 47907

**Authority:** Dod 3210.6-R, Section 31.3

**Modification Content:**

This grant is hereby modified to reflect the following changes:

1. This Grant is hereby modified to include it in the OCNR/DFAS EDI/EFT bill paying system. All payments will be made via funds per the Payment Information Form ACH Vendor Payment System (TSF 3881) recorded under DFAS Vendor Number 4301AO.
2. The Grantee section of the grant is revised as follows:  
DFAS EDI/EFT Vendor Number 4301AO  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL, THIRD FLOOR  
WEST LAFAYETTE, IN 47907
3. The payment section of the grant is revised as follows:  
7. Payments: Upon acceptance of the terms and conditions of this grant, the grantee shall submit requests for payment to the Administrative Grants Officer using OCNR/DFAS EDI/EFT bill paying network. All payments shall be via funds transfers per the Payment Information Form ACH Vendor Payment System (TSF 3881) recorded under DFAS EDI/EFT Vendor Number 4301AO (which is incorporated as Attachment 1 to this modification).

UNITED STATES OF AMERICA BY THE  
OF

(b) (6)

BY: \_\_\_\_\_  
Administrative Grants Officer

DATE: 10/16/96

BY:

DATE:



# INDIVIDUAL GRANT ACTION REPORT

**INTERAGENCY  
REPORT  
CONTROL NUMBER  
0252-DOC-QU**

<b>PART A</b>	<b>A1. TYPE OF REPORT</b> 0 0 Original 1 Cancelling 2 Correcting	<b>A2. REPORT NO.</b> 2488	<b>A3. CONTRACTING OFFICE CODE</b> E612A
<b>PART B</b>	<b>B1. CONTRACTOR ESTABLISHMENT CODE</b> 07172054E	<b>B2. CAGE CODE</b> 4B877	<b>B3. FICE CODE</b> 001825
		<b>B4. TIN</b> 351052049	<b>B5. PARENT TIN</b>  
<b>B6. RECIPIENT NAME AND DIVISION NAME</b> PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS		<b>B7. RECIPIENT ADDRESS (Street, City, State)</b> HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN	
		<b>B8. RECIPIENT CITY OR PLACE CODE</b> 82862	<b>B9. RECIPIENT STATE OR COUNTRY CODE</b> 18
		<b>B10. ZIP CODE</b> 47907	
<b>B11.</b>	<b>TYPE OF RECIPIENT</b> 1. State Government 2. County Government 3. Municipal Government 4. Special District Government 5. Independent School District 6. State Controlled Institutions of Higher Education 7. Indian Tribe 8. Nonprofit Agency (Other than Education) 9. Private Higher Education Institution 10. Individual 11. Profit Organization (Not a Small Business) 12. Small Business 13. All Other		<b>B12. OTHER RECIPIENT INFORMATION</b> 1. Historically Black Colleges and Universities 2. Minority Institutions 3. Foreign Universities 4. Foreign Nonprofit Organizations 5. Federally Funded Research and Development Center (Academia) 6. Federally Funded Research and Development Center (Nonprofit) 7. Not Applicable
06			07
<b>PART C</b>	<b>C1. AWARD NUMBER</b> N00014-95-1-1302	<b>C2. MOD NUMBER</b> P00001	<b>C3. OBLIGATION DATE (YYMMDD)</b> 3-13-96
		<b>C4. PROJECT STARTING DATE (YYMMDD)</b> 960501	<b>C5. PROJECT ENDING DATE (YYMMDD)</b> 961031
<b>C6. TYPE OF ACTION</b> 1. New Award 2. Subsequent Incremental Funding Action 3. Exercise of Option, Additional Research 4. Revision of Research Proposal 5. Funding Adjustments to Completed Project		<b>C7A. FEDERAL OBLIGATION AMOUNT (Enter whole dollars only)</b> 0001742000	<b>C7B. FEDERAL OBLIGATION SIGN</b> 1. Obligation 2. Deobligation
		<b>C8A. NONFEDERAL OBLIGATION AMOUNT (Enter whole dollars)</b>  	<b>C8B. NONFEDERAL OBLIGATION SIGN</b> 1. Obligation 2. Deobligation
2			
<b>C9. TOTAL FEDERAL VALUE OF AWARD (Enter whole dollars only)</b> 0006270000			
<b>C10.</b>	<b>TYPE OF AWARD</b> 1. Revenue Sharing 2. Block Grant 3. Formula Grant 4. Project Grant 5. Cooperative Agreement 6. Direct Payment (Specified Use) 7. Direct Loan 8. Guaranteed Insured Loan 9. Insurance 10. Direct Payment (Unrestricted Use) 11. Other Reimbursable, Contingent Intangible, Indirect		<b>C11. CFDA NUMBER</b> 12.300
04			
<b>C12. Project Description</b> Manufacturable Power Switching Devices			
<b>C13. PRIMARY ADMINISTERING AGENCY</b> 1700		<b>C14. PRINCIPAL PLACE OF PERFORMANCE</b> <b>C14A. CITY OR PLACE CODE</b> 82862	<b>C14B. STATE OR COUNTRY CODE</b> 18
		<b>C15. TYPE OF FUNDS</b> 1. Basic Research 2. Exploratory Development 3. Advance Development 4. Demonstration/Validation 5. Engineering/Manufacturing Development 6. Management and Support 7. Operations Systems Development 8. Other	
<b>C16. AGENCY APPROPRIATION</b> 1 ARMY 2 DMA 3 BMDO 4 OSD 5 ARPA 6 AF 7 NSA 8 DNA 9 DISA 10 DIA 11 USMC 12 NAVY 13 DLA 14 USUHS 15 NONDoD 16 OCE 17 OTHER DOD		<b>C17. EXTENT COMPETED</b> 1. Competed Action 4. Not Competed	
4			1
<b>C18. CATEGORY OF SUPPORT (Choose one category).</b> C18A. RESEARCH AND DEVELOPMENT C18B. FELLOWSHIPS, TRAINEESHIPS C18C. R&D PLANT C18D. FACILITIES AND EQUIPMENT FOR SCIENCE AND ENGINEERING (DoD Instrumentation) C18E. GENERAL SUPPORT FOR SCIENCE AND ENGINEERING C18F. OTHER ACTIVITIES RELATED TO SCIENCE AND ENGINEERING (Conference Symposia) C18G. ALL OTHER ACTIVITIES NOT RELATED TO SCIENCE AND ENGINEERING		<b>AMOUNT</b> 0001742000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000	<b>C19. CATEGORY OF SCIENCE AND ENGINEERING</b> C19A. 45 C19B. 13 C19C.
<b>PART D</b>	<b>D1. NAME OF CONTRACTING OFFICER OR REPRESENTATIVE (Last, First, Middle Initial)</b> Gallmon, Julia, M	<b>D2. SIGNATURE</b> (b) (6)	<b>D3. TELEPHONE NUMBER (Include Area Code)</b> (703) 696-2609
			<b>D4. DATE SIGNED (YYMMDD)</b> 960313



## Code: ONR 252

NAVOCNR 4200/1 (Rev. 4-92)

## Grant Distribution

PR Number: 96PR05125-00  
Grant Number: N00014-95-1-1302/P00001  
Specialist: JMG ONR: 252

Distribution Date:

02 APR 1996

Distributed By:

(b) (6)

— PCO, ONR Arlington (Original)

— Grantee (Duplicate Original)  
Short Contractor Code and Address:  
PURD  
PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

— ACO  
ACO MILSCAP Code & Address N62880:  
OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO  
536 S CLARK STREET ROOM 208  
CHICAGO, IL 60605-1588

— Payment Office  
DODAAD Code and Address N00179:  
DFAS CHARLESTON OPLOC  
VENDOR PAY AND TRAVEL DIV CODE FP  
PO BOX 118054  
CHARLESTON, SC 29423-8054

— ONR:  
00CC11  
Program Officer: Alvin M. Goodman, ONR 312

3-18-96

# INDIVIDUAL GRANT ACTION REPORT

INTERAGENCY REPORT  
CONTROL NUMBER  
0252-DOC-QU

<b>PART A</b>	A1. TYPE OF REPORT 0 0 Original 1 Cancelling 2 Correcting		A2. REPORT NO. 3743		A3. CONTRACTING OFFICE CODE E614B	
<b>PART B</b>	B1. DUNS NUMBER 07172054E	B2. CAGE CODE 4B877	B3. INSTITUTION CODE 001825	B4. TIN 351052049	B5. PARENT TIN	
B6. GRANTEE NAME AND DIVISION NAME PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS			B7. GRANTEE ADDRESS (Street, City, State) HOVDE HALL THIRD FLOOR		B8. GRANTEE CITY OR PLACE CODE 82862	B9. GRANTEE STATE OR COUNTRY CODE 18
					B10. ZIP CODE 47907	
B11. TYPE OF GRANTEE 6 1 State Government 2 County Government 3 Municipal Government 4 Special District Government 5 Independent School District 6 State Controlled Institutions of Higher Education 7 Indian Tribe 8 Nonprofit Agency (Other than Educational) 9 Private Higher Education Institution 10 Individual 11 Profit Organization (Not a Small Business) 12 Small Business 13 All Other				B12. OTHER GRANTEE INFORMATION 7 1 Historically Black Colleges and Universities 2 Minority Institution 3 Foreign University 4 Foreign Nonprofit Organization 5 Federally Funded Research and Development Center (Academic) 6 Federally Funded Research and Development Center (Nonprofit) 7 Not Applicable		
<b>PART C</b>	C1. GRANT NUMBER N000149511302	C2. MOD NUMBER	C3. OBLIGATION DATE (YYMMDD) 95-9-21	C4. PROJECT STARTING DATE (YYMMDD) 950929	C5. PROJECT ENDING DATE (YYMMDD) 960430	
C6. TYPE OF ACTION 1 1 New Grant Award 2 Subsequent Incremental Funding Action 3 Exercise of Option, Additional Research, Revision of Research Proposal 4 Funding Adjustment to Complete Project		C7A. FEDERAL OBLIGATION AMOUNT (Enter whole dollars only) 0001400000	C7B. FEDERAL OBLIGATION SIGN 1 1 Obligation 2 Deobligation	C9. TOTAL FEDERAL VALUE OF GRANT (Enter whole dollars only) 0006270000		
		C8A. NONFEDERAL OBLIGATION AMOUNT (Enter whole dollars only)	C8B. NONFEDERAL OBLIGATION SIGN 1 Obligation 2 Deobligation			
C10. TYPE OF AWARD 04 1 Revenue Sharing 2 Block Grant 3 Formula Grant 4 Project Grant 5 Cooperative Agreement 6 Direct Payment (Specific Use) 7 Direct Loan 8 Guaranteed Loan 9 Insurance 10 Direct Payment (Restricted Use) 11 Other Reimbursable, Contingent, Intangible, Indirect					C11. CFDA NUMBER 12.300	
C12. PROJECT DESCRIPTION Manufacturable Power Switching Devices						
C13. PRIMARY ADMINISTERING AGENCY 1700		C14. PRINCIPAL PLACE OF PERFORMANCE C14A. CITY OR PLACE CODE 82862 C14B. STATE OR COUNTRY CODE 18		C15. TYPE OF FUNDS 1 1 Research 2 Exploratory Development 3 Advanced Development 4 Engineering Development 5 Operational Systems Development 6 Management and Support 7 Other		
C16. AGENCY APPROPRIATION 4 1 ARMY 2 DMA 3 SDIO 4 OSD 5 DARPA 6 AF 7 NSA 8 DNA 9 DCA 10 DIA 11 USMC 12 NAVY 13 DLA 14 USUHS 15 Non-DOB				C17. EXTENT COMPLETED 1 1 Completed Action 2 Not Available for Competition 3 Follow-on to Completed Action 4 Not Completed		
C18. CATEGORY OF SUPPORT (Choose one category)				C19. CATEGORY OF SCIENCE AND ENGINEERING		
C18A. RESEARCH AND DEVELOPMENT				C19A. 13		
C18B. FELLOWSHIPS, TRAINEESHIPS				C19B. 19		
C18C. R & D PLANT				C19C.		
C18D. FACILITIES AND EQUIPMENT FOR SCIENCE AND ENGINEERING (DoD Instrument)						
C18E. GENERAL SUPPORT FOR SCIENCE AND ENGINEERING						
C18F. OTHER ACTIVITIES RELATED TO SCIENCE AND ENGINEERING (Conference/Symposia)						
C18G. ALL OTHER ACTIVITIES NOT RELATED TO SCIENCE AND ENGINEERING						
<b>PART D</b>	D1. NAME OF CONTRACTING OFFICER OR REPRESENTATIVE (Last, First, Middle Initial) Coleman Curtissa L		D2. SIGNATURE (b) (6)		D3. TELEPHONE NUMBER (Include Area Code) 703-696-4516	D4. DATE SIGNED (YYMMDD) 950803



Contractor: PURDUE RESEARCH FOUNDATION  
 Contract Number: N00014-95-1-1302  
 R&T Project Code: 1213017---01

Date: 5 SEP 1995  
 Code: 251:CLC

Code	Initials	Date	Comments
Requesting Activity SO	AMG	01 AUG 1995	
252B	(b) (6)	9-5-95	
CAAS Fiscal Approval 251	(b) (6)	9-11-95	
100T/01IS			
630/1411PM			
100Y/00SB			
100L/00CC	(b) (6)	9-14-95	Check the PR to make sure that PRF has legal authority to use the Purdue University facilities & research. If not, a short letter from P.H. to this effect would be fine. PRF
Contracting Officer	(b) (6)	9-21-95	It was added 20 Sep 95 filed w/ grant
252B			

	App.	Encl	Pend		App.	Encl	Pend
Contractor Representation & Certifications				Initial Synopsis	Y	X	
Scientific Officer Certifications	Y	X		Award Synopsis	Y	X	
Method of Contracting D&F				CHINFO			
Contractor Support Services (CAAS)				Other			
Nonpersonal Services Determination							
Data Form For Grants				PR/Req. Date		26 JUL 1995	
Grant Clearance Memo	Y	X		PR/Req. Received in Code 15		01 AUG 1995	
DD 254				Mailed to Contractor			
EEO				Final Execution			
Human Volunteers				Beginning Date of Contract Action		29 SEP 1995	
Business Clearance				Mail Attn: CHANDREA LIGHTFOOT			
Subcontracting Plan				Negotiated Value: \$6,270,000.00			
ADP Approval				Obligated by this PR: \$1,400,000.00			
J&A				Program Element: ?			
Acquisition Plan				Remarks:			

CONTRACT DISTRIBUTION DOCUMENT

R&T Project Code: 1213017---01  
Contract Number: N00014-95-1-1302  
Negotiator: Curtissa L. Coleman Code: 251

( ) Contractor Execution Requir  
Date Mailed: \_\_\_\_\_  
Initials: \_\_\_\_\_

Distribution Date: \_\_\_\_\_  
\_\_\_\_\_ PCO, ONR Arlington (Original)

Distributed By: \_\_\_\_\_

(b) (6)

\_\_\_\_ Contactor (Duplicate Original)  
\_\_\_\_ Short Contractor Code & Address:  
    purd  
    PURDUE RESEARCH FOUNDATION  
    DIVISION OF SPONSORED PROGRAMS  
    HOVDE HALL THIRD FLOOR  
    WEST LAFAYETTE IN 47907

\_\_\_\_ ACO  
\_\_\_\_ ACO MILSCAP Code & Address:  
    OFFICE OF NAVAL RESEARCH      N62880  
    REGIONAL OFFICE CHICAGO  
    536 S CLARK STREET ROOM 208  
    CHICAGO IL 60605-1588

\_\_\_\_ Payment Office  
\_\_\_\_ DODAAD Code & Address:  
    N00179  
    DEFENSE FINANCE ACCOUNTING SERVICE  
    CHARLESTON OPERATING LOCATION  
    PO BOX 71489      ATTN CODE FPVG  
    NORTH CHARLESTON SC 29415-1489

\_\_\_\_ Cognizant Audit Agency (?) If checked, send a copy of the clearance  
Code & Address:      memorandum to the audit agency.  
    HS05  
    DEPARTMENT OF HEALTH HUMAN SERVICES  
    REGIONAL INSPECTOR GENERAL FOR AUDIT  
    300 SOUTH WACKER DRIVE  
    ROOM 3536  
    CHICAGO IL 60606

\_\_\_\_ ONR Codes:  
    00CCP11  
    11D4  
    Scientific Officer:  
    Alvin M. Goodman, Code: 312

\_\_\_\_ Other:  
\_\_\_\_ Outside Source of Funds Code & Address:  
    ?

0-2-95



Porter, Carol A.

---

**From:** Zolper, John  
**Sent:** Tuesday, July 25, 2000 3:22 PM  
**To:** Porter, Carol A.  
**Subject:** RE: N000149511302 PURDUE UNIVERSITY

I approve of the extension to 31 December 2000.

John

-----Original Message-----

**From:** Porter, Carol A.  
**Sent:** Tuesday, July 25, 2000 11:36 AM  
**To:** Zolper, John  
**Cc:** Porter, Carol A.  
**Subject:** N000149511302 PURDUE UNIVERSITY

Mr. Zolper,

The University is requesting a no funds extension from 28 Sep 2000 to 31 Dec 2000. Please give an authorization if this is deemed reasonable.

Carol Porter

# PURDUE UNIVERSITY



SCHOOL OF ELECTRICAL  
AND COMPUTER ENGINEERING

July 13, 2000

Ms. Carol Porter  
Office of Naval Research  
Ballston Centre Tower One  
800 North Quincy Street  
Arlington, VA 22217-5660

Dear Ms. Porter:

Ref: N00014-95-1-1302 (530-1285-1348)

Work is continuing on several avenues of investigation under this MURI program. These projects include studies of the interface state density near the conduction band on 4H-SiC as a function of oxide deposition conditions, post-oxidation anneals in NO and NH<sub>3</sub>, and post-oxidation heat treatments required for gate deposition. Other work in progress includes development of high-voltage DMOSFETs and UMOSFETs with blocking voltages in the 2-6 kV range. These latter devices are being constructed with modified fabrication procedures to avoid p-type implants and the attendant high-temperature implant activation anneals that disrupt the surface and reduce inversion layer mobility in subsequently-formed MOSFETs.

We would like to request a 3 month no-cost extension on this project to continue this work through the end of December 2000.

We look forward to receiving your favorable reply. Thank you.

APPROVAL REQUESTED:

(b) (6)

James A. Cooper, Jr.  
Professor of Electrical  
and Computer Engineering

Approval Recommended:

APPROVED:

(b) (6)

W. Kent Fuchs, Head  
School of Electrical and Computer Engrg.

(b) (6)

Thomas B. Wright, Assistant Director  
Sponsored Program Administration

/vj

Cc: Office of Naval Research Regional Office, Chicago, IL  
EE Business Office, 530-1285-1348  
Edie Doland, Sponsored Program Services

1285 Electrical Engineering Building • West Lafayette, IN 47907-1285 USA  
765-494-3514 (FAX -6441) • [cooperj@ecn.purdue.edu](mailto:cooperj@ecn.purdue.edu) • <http://www.ecn.purdue.edu/WBG/>

# Purdue University



School of Electrical  
and Computer Engineering

February 27, 1996

Dr. Al Goodman  
Office of Naval Research, ONR-312  
800 North Quincy Street  
Arlington, VA 22217-5660

(703) 696-4845  
FAX 696-2611

Dear Dr. Goodman:

The final budget for grant no. N00014-95-1-1302 "Manufacturable Power Switching Devices" contains \$54,442 for the purchase of scientific equipment in the first year of the program (FY95) and \$64,557 for the purchase of scientific equipment in the second year of the program (FY96). The anticipated purchases are listed below.

## FY'95 Funds

Item	Supplier	Quan	Estimated Unit Cost	Extended Cost
Thermal Oxidation Furnace (Reconditioned)	Exmatec	2	\$14,125	\$28,250
Vacuum-Capable Rapid Thermal Annealer (for ohmic contact anneal)	Not yet determined	1	\$26,192	\$26,192

## FY'96 Funds

Item	Supplier	Quan	Estimated Unit Cost	Extended Cost
LCR Meter (HP-4284A)	Hewlett-Packard	1	\$13,166	\$13,166
III-N Gas Handling Equipment for MOCVD System	Not yet determined	1	\$37,000	\$37,000
Inductively Heated Annealing Furnace (for implant activation)	Not yet determined	1	\$14,391	\$14,391

Sincerely,

(b) (6)

James A. Cooper, Jr.  
Professor of Electrical  
and Computer Engineering

1285 Electrical Engineering Building • West Lafayette, IN 47907-1285  
PHONE (317) 494-3514 • FAX (317) 494-6441 • E-MAIL: cooperj@ecn.purdue.edu

## PMEQMNT

[illegible]





DEPARTMENT OF THE NAVY

OFFICE OF NAVAL RESEARCH  
800 NORTH QUINCY STREET  
ARLINGTON, VA 22217-5660

22 SEP 1995

IN REPLY REFER TO

251:CLC

PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

Gentlemen:

Enclosed for your retention is one copy of Grant Number N00014-95-1-1302 which I have signed for the Government. The grant document does not require your signature.

Please acknowledge receipt of this grant by promptly signing and returning the enclosed copy of this transmittal letter to this office to the attention of Code 251:CLC. Keep this original letter for your records.

In the event of any disagreement with the grant provisions, you must notify this office within thirty (30) days of the date of this letter. If you have any questions, please contact Curtissa L. Coleman by telephone on (703) 696-4516.

In addition, please note that the Grant General Terms and Conditions for Educational Institutions, Nonprofit Organizations, and State and Local Governments have been revised. A copy of the terms and conditions has been attached to this letter in full text.

Sincerely,

(b) (6)

AMBERLY C. MCQUEEN  
Grants Officer

Enclosure

Acknowledgement of Receipt

By

(b) (6)

Date: OCT 2 1995



DEPARTMENT OF THE NAVY  
OFFICE OF NAVAL RESEARCH  
800 NORTH QUINCY STREET  
ARLINGTON, VA 22217-5660

22 SEP 1995

IN REPLY REFER TO

251:CLC

*Recd*

PURDUE RESEARCH FOUNDATION  
DIVISION OF SPONSORED PROGRAMS  
HOVDE HALL THIRD FLOOR  
WEST LAFAYETTE, IN 47907

Gentlemen:

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Sincerely,

LAMBERT C. McCULLOUGH  
Grants Officer

Enclosure

Acknowledgement of Receipt

By: \_\_\_\_\_

Date: \_\_\_\_\_